



## HOW TO MEASURE MIL THICKNESS

### WFT (Wet Film Thickness) versus DFT (Dry Film Thickness)

- To ensure the coating will perform as tested, the applicator needs to ensure the required thickness of material is applied.
- Wet Film Thickness (WFT) is a measurement of the wet coating thickness before any drying or curing has occurred.
- Dry Film Thickness (DFT) is a measurement of the dry and cured material after all liquid has evaporated.
- $DFT = WFT \times \% \text{ volume solids}$ . For a 67% volume solids material with a WFT of 18 mils,  $DFT = 18 \times 0.67 = 12 \text{ DFT}$ .
- A WFT gauge is designed to give the spray applicator immediate mil measurement of the film build just sprayed. The most common type of WFT gauge is the notch gauge. See Figures 1 & 2 for more details.



Figure 1. Notch Type Wet Film

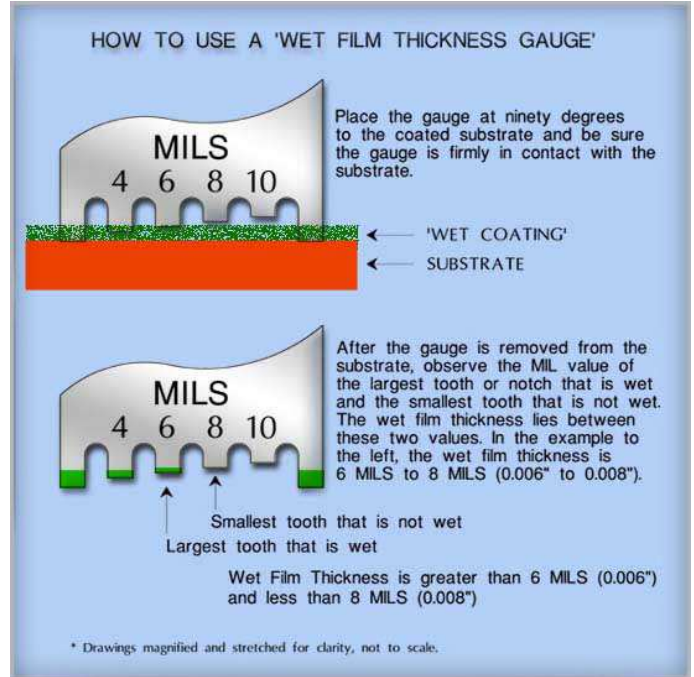


Figure 2. Details on measuring WFT using a notch type wet film gauge. Image courtesy of [www.geionline.com](http://www.geionline.com).

### Using Medallions to Document the Install and Verify Thickness of the Coating

- Write the job date, applicator name and the Wet Film target on the back of each plate. (See Figure 3)
- Install metal plates throughout the surface of the foam.
- Measuring WFT on the front side of the plate will give the most accurate reading
- Collect these plates and keep them on file. They are a great tool to present your code official or Fire Marshal.
- These plates allow for future verification of the Dry Film Thickness (DFT) using electronic or magnetic measuring tools.

### Specifications of Medallions

- Mending Plates
- Model # TP15
- UPC # 031107654803
- Available at local or online hardware stores.



Figure 3. Front and back of Medallions. These mending plates can be purchased at local hardware stores.